Work Order II August-29-13 1:31:50			*106377*									Page 1				
Item ID: D402 Revision ID: Item Name: Bush		504011	Accept		*N9000	า4ก	100	)*	Setup	Start Stop	*N: *N	S1* S2*				
Start Date: 9/04/ Required Date: 9/04/ Reference:		7 <i>9</i> 6/ * <b>7</b> *			Cust Item ID Customer:	<b>:</b>										
Approvals: Pro	cess Plan:	Date: 13-08-	30 Tooling:		Dat	e:	_	1	Run	Start	*N	R1*				
QC		<del></del>		y): _	Dat	e:				Stop	*N	R2*				
Sequence ID/ Work Center ID	Operation Description		Set Up Run H		Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp				
Draw Nbr	Revision Nbr	<del></del>						<del></del>			<del></del>					
D4021	В															
*100 *100* Hardinge Hardinge CNC Lathe Smal	*** <sub> </sub>	mo RN AS PER FOLIO FA 868 AN G REV: JO REV: MACHINE TO .375" MAX OI		OAS :	13/09/0	8		IS		Ø		: :				
*110 *110*	ť	rts off machine FAI/FAIB	0.00	OAS ) 40 j	13/01/0	8		<u>(S</u>		Ø		;				

NCR:	Yes	1	No
NUR.	res	1	INU

## **WORK ORDER NON-CONFORMANCE / UPDATE**

-									QA Closed:	Dat	e:
Work Ordei	<b>r.</b>				DISPOSITION			AGAINST DE	PARTMENT,	/PROCESS	
Part No	0		-		Rework Scrap Use-as-is Work Order Update	4 8	Skid-tube  Machining  noforming  Large Fab	Crosstube Small Fab Finishing Composite	Engineering Quality Other		
		<u> </u>	1	Danasi			Δ.	ction	Sign &		1
Root	D-4-				ption of work order update		i .	cription	Date	Verification	QC Inspector
Cause	Date	Step	Qty	•	or Non-conformance	Chief Eng	Des	сприоп	Date	vernication	QC irispector
Doc/Data	_					<u> </u>					, i
Equip/Tooling											
Operator	_										
Material	_										
Setup	4						1				
Other											
Process	_								·		
Supplier	_		i !								
Training			1 1							:	
Unapproved		<u> </u>	11			ALU T CATE	CORY	<del></del>		<u> </u>	
						AULT CATE	GORY				
Landin F				-	General				ا ماندها	Γ	Pressure/Forced
-	Bending			. <u> </u>	Bend	Grain		<u> </u>	Ovalized		<b>→</b>
}-	Centre No	ot Conce	ntric to C	)/S  -	BOM/Route	Hardwa		<u> </u>	Over/Under	+	Temperature/Cure
-	Cracks			-	Broken/Damaged	<b>—</b>	ion Incomplete	41.	Part Incorred	<u> </u>	Weld
	Crushed/	Crimped		_	Burrs	-	tions Incomplete		Part Lost/Mi	ssing [	Wrong Stock Pulled
-	Cuffs Contamination		╡	Mainte		<u> </u>	Part Moved				
Heat Treat Countersink			=	Mislabe		<u> </u>	Positioned V				
-	Inspectio		Tube	<b> </b> -	Cut Too Short	Misrea	<b>a</b>		Power Loss/	surge [	Other
Ripples in Bend Drill Holes			Offset	A 101							
	Torque W			`	Drawing	<b></b>	Calibration				
Ļ				Finish	$\vdash$	Sequence					
l l	Wave/Twist in Tube			l Folio	I IOutside	Dimensions					

Work Ord 4ugust-29-13 1		06377		*106	637	7*							Page 2
Item ID: Revision ID: Item Name:	D4021-9 Bushing		A	Accept	*N	1900	<b>040</b>	100	)* s	etup S	Start Stop	*N.S	\$1* \$2*
Start Date: Required Date: Reference:	9/04/13 : 9/04/13	Start Qty: 7.00 Req'd Qty: 7.00	*7* *7*			Cust Item IE Customer:	<b>D</b> :						
Approvals:		an:		Tooling: SPC (Y/N):			te: te:	 	R		Start Stop	*NF	₹1* ₹2*
Sequence ID/ Work Center I  120 *120* QC Quality Control	D	Operation Description QC8- Inspect parts - second	ond check	Set Up/ Run Hours 0.00 0.00	7.2	13/09	Tool#	Plan Code	Accept Qty	Reject Qty			Insp. Stamp DAS 08
*130 *130* Packaging		Identify as per dwg & St <b>Memo</b>	ock Location: <u>VIACO</u> 4	0.00		,			15x	20	₩ 8 •	13-09-	-10
140 <b>*14 *1 QC</b> Quality Control		QC21- Final Inspection -	- Work Order Release	0.00						13	3/9	/n t	9

MB or "

DQA: Date:
------------

NCR: Yes / No WORK ORDER NON-

## WORK ORDER NON-CONFORMANCE / UPDATE

										QA Closed:	Dat	te:	
Work Ordei	<b>r</b> .			•	DISPOSITION				AGAINST D	EPARTMENT	/PROCESS		
Part No	0				Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube  Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	→	Water Jet d. Eng. Coor. re/Packaging Supplier		Engineering Quality Other
Root				Descri	ption of work order update	l	nitial	Ac	tion	Sign &			
Cause	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	n	QC Inspector
Doc/Data Equip/Tooling Operator									-				
Material											1		
Setup		ļ											
Other										!			
Process													
Supplier	_	1											
Training													!
Unapproved											<u> </u>		
		بيدية جو				<u>AUL</u>	T CATE	GORY					
Landin	g Gear	S≥ Megr. <sup>15</sup>	<b>t.</b>		General	_			_	_	ī		
<u> </u>	Bending			<u> </u>	Bend	Щ	Grain		<u> </u>	Ovalized	_	-	Pressure/Forced
_	Centre N	ot Conce	ntric to (	o/s	BOM/Route		Hardwa		ļ	Over/Under		-	Temperature/Cure
-	Cracks			<u> </u>	Broken/Damaged	Ш	-	on Incomplete		Part Incorre		_	Weld
-	Crushed/	Crimped		<u> </u>	Burrs	$\vdash$		ions Incomplete/	Unclear	Part Lost/M	issing	Ш,	Wrong Stock Pulled
-	Cuffs			L	Contamination	Ш	Mainte		<u> </u>	Part Moved			
_	Heat Trea			<u> </u>	Countersink	-	Mislabe			Positioned \	- 1	П.	
-	Inspectio	-	Tube	<u> </u>	Cut Too Short		Misread	j	L	Power Loss/	Surge		Other
	Ripples in			L	Drill Holes	$\vdash$	Offset						
	Torque V			<sup>℩</sup>	Drawing	<u> </u>		Calibration					
	Turning Sequence Finish				<u> </u>		Sequence					•	
İ	Wave/Twist in Tube Folio			Folio		Outside	Dimensions						

Page 1

Work Order ID:

106377

Parent Item:

D4021-9

Parent Item Name:

Bushing

Start Date: 9/04/13

Required Date: 9/04/13

Start Qty: 7.00

Required Qty: 7.00

Comments:

IPP REV:A NEW ISSUE 09-11-23 JLM VERIFIED BY:DD

IPP Rev:B as per dwg REV.A

DD 10.02.22 verified by:EC IPP Rev:C as per dwg revB DD 10.04.20 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304R0.375 304 ROUND BAR 0.375		Purchased	No			·····	f	35.1270		0.581	DA.C	1_13/	09/08
				<b>Location</b>		Loc Qty	<u>Lo</u>	c Code			40 9-89	<b>)</b>	
				MAT029		35.127						1	
				1255	85	1.364						1	
				₩12e	6153	33.763				750		į	

											DQA:	Date	•	
NCR: Y	es ,	/ No				WORK ORDER NON-	COI	NFORM	MANCE / UPDATE					
											QA Closed:	Date	•	
Work Orde	or.					DISPOSITION			AGAINS	T DE	PARTMENT	PROCESS		
Work Orde	- ' -		-		<del></del>	Rework Skid-tube			Skid-tube Crosstub	rosstube Water Jet Engineering				
Part N	lo.					Scrap Machining Small Fab				Proc	Quality			
					Use-as-is		Thern	noforming Finishin	g	Rec/Stor	e/Packaging	Other		
NCR No.			Work Order Update			Large Fab Composit	e	]	Supplier					
				<del> </del>			· · · ·	<u> </u>	A - 1.7		T" c: a		<del></del>	
Root	- 1					ption of work order update		Initial	Action		Sign &	\		
Cause		Date	Step	Qty	!	or Non-conformance	Cr	nief Eng	Description		Date	Verification	QC Inspector	
Doc/Data														
Equip/Tooling							ŀ				ŀ			
Operator														
Material				,										
Setup														
Other					1									
Process			ļ										}	
Supplier				İ										
Training					İ									
Unapproved													1	
						F	ΑŲΙ	LT CATE	GORY					
Landi	ng Ge	ear				General		_			_	<b>,</b>	<b>-</b>	
		Bending				Bend	L	Grain			Ovalized		Pressure/Forced	
	Centre Not Concentric to O/S BOM/Route				L	Hardwa	re		Over/Under	tolerance	Temperature/Cure			
	Cracks Broken/Damaged			Broken/Damaged		Inspecti	on Incomplete		Part Incorrec	it	Weld			
	Crushed/Crimped Burrs			Burrs		Instruct	ions Incomplete/Unclear		Part Lost/Mi	ssing	Wrong Stock Pulled			
	Cuffs Contamination				Contamination		Maintenance Part Moved							
					Countersink		Mislabe	eled		Positioned W	/rong			

Misread

Out of Calibration Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

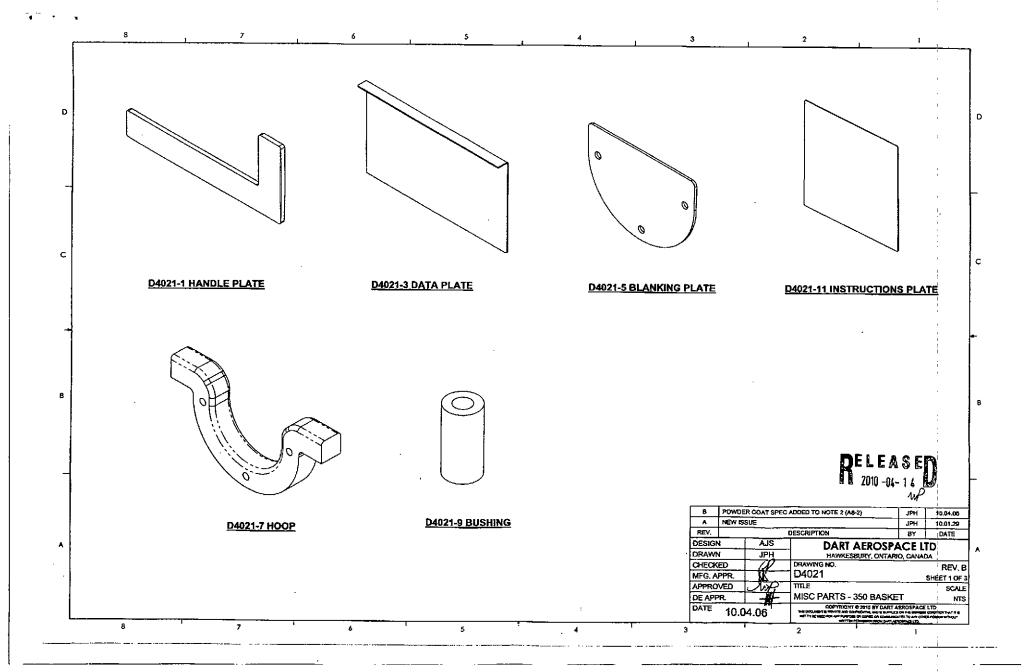
Drawing

Finish Folio

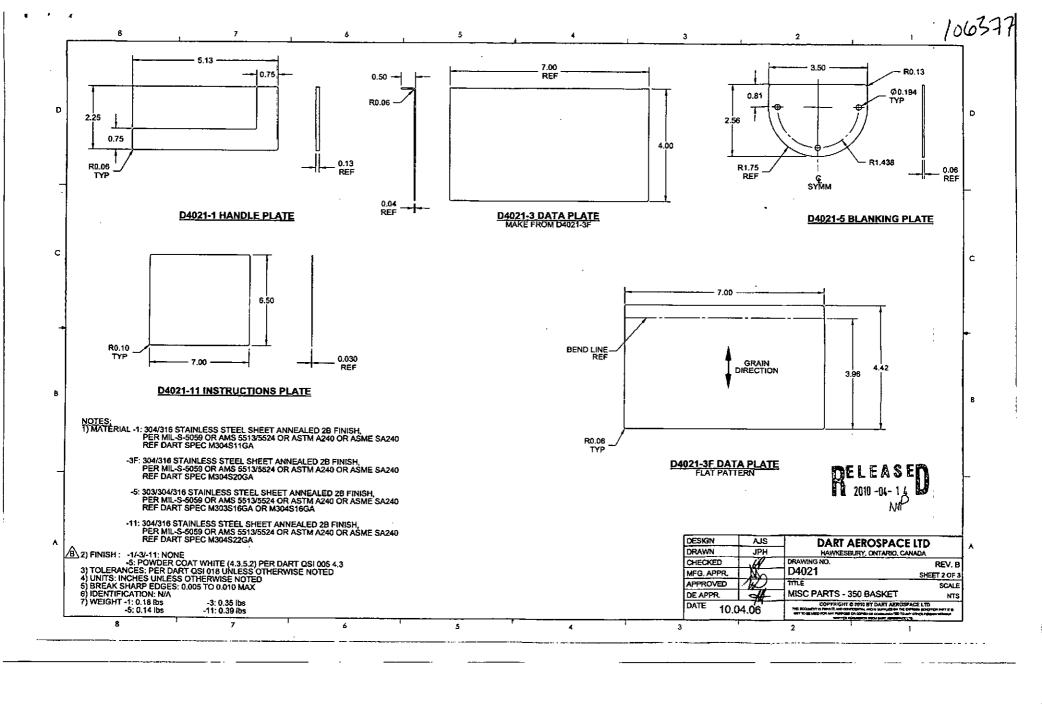
DART AEROSPACE LTD	Work Order:	106577
Description: Bushing	Part Number:	D4021-9
Inspection Dwg: D4021 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST												
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Com	ıments					
Ø0.191	+0.005/-0.001	.193			PIN G							
0.38	+/-0.030	-370			VERN	PUD-12						
0.75	+/-0.030	. 747			ι¢	4 (						
		·										
···												
						_						
						-						
	δAS .											
Measured by:	40	Audited by:	13/09/C	D'G	Preliminary A	Approval:						
Date: (3)	109 108	Date:	13/09/0	88.8		Date:						
	hange		1 1		Revis	ed by	Approved					
	ew Issue				KJ	- \$X	Approved					

Rev	Date	Change		Revised	by,	Approved
A	10.06.08	New Issue	 	KJ	TAX	
			 		77	



·		
	•	



6 s £		

Ø0.191 -Ø0.38 5.00 R0.50 4 PL R0.10 0,63+0,00 0.813 R1.125 REF 2.56 REF Ø0.194 R1.438 R1.75 0.63<sup>+0.00</sup> **D4021-9 BUSHING** - 2.500 -**D4021-7 HOOP** NOTES: 1) MATERIAL-7: 304/316 STAINLESS STEEL BAR, PER ASTM A278 REF DART SPEC M3048 -9: 304/316 STAINLESS STEEL ROUND BAR, PER ASTM AZ78 REF DART SPEC M304R DESIGN AJS DART AEROSPACE LTD 2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: N/A
7) WEIGHT -7: 0.80 fbs
-9: 0.02 lbs DRAWN JPH HAWKESBURY, ONTARIO, CANADA DRAWING NO.

5

8 .

CHECKED REV. B D4021 MFG. APPR. SHEET 3 OF 3 APPROVED TITLE SCALE MISC PARTS - 350 BASKET DE APPR. COPYTUDET O 2010 BY DART ARROGRACE LTD
THE MOUNTE OF THE THE STREET OF THE COPY OF THE COP DATE 10.04.06

. . .